

PAT-NO: JP02002241957A

DOCUMENT-IDENTIFIER: JP 2002241957 A

TITLE: METALLIC SURFACE TREATMENT AGENT, METALLIC
SURFACE TREATMENT METHOD AND SURFACE TREATED METALLIC
MATERIAL

PUBN-DATE: August 28, 2002

INVENTOR-INFORMATION:

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APPL-NO: JP2001037605

APPL-DATE: February 14, 2001

INT-CL (IPC): C23C022/07, C23C022/00 , C23C026/00

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a metallic surface treatment agent which gives excellent corrosion resistance and electric conductivity of the film formed therefrom, and excellent coating adhesion in the formation of a top coating material on a film, a metallic surface treatment method, and a surface treated metallic material.

SOLUTION: The water based coating agent for a metallic material is a water based composition obtained by blending a water based dispersion resin of 5 to 30 mass% by the concentration of a solid content, silica fine particles of 1 to

10 mass%, a thiocarbonyl group-containing compound of 0.02 to 5 mass%, and phosphoric ions of 0.01 to 0.5 mass%. The water based dispersion resin is a water dispersed body obtained by reacting a water-dispersed ionomer resin obtained by neutralizing $\geq 30\%$ of the carboxyl group in an ethylene-unsaturated carboxylic acid copolymer containing unsaturated carboxylic acid of 10 to 30 mass% by using calcium ions with an epoxy resin.

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